

# Work of Four Sandia Lab Technicians Awarded Top Honors in TIMA Exhibit

Four of Sandia Lab's technical artists have won top honors in a national technical art exhibit.

Artists Richard K. Strome, Cecil C. Kinney, Robert H. Newman, and Charles E. Spriggs earned first awards from the Technical Illustrators Management Association. All are members of Technical Arts Division 3463.

Their work was part of 21 entries of the division's work for

Sandia Laboratory that were selected for display at the eighth annual TIMA exhibit. All Sandia entries were chosen for display. Of the more than 500 entries in the TIMA exhibit, only about half received this honor.

A black and white air brush illustration of an electric motor and gear reduction system produced the first place for Dick Strome. A series of cartoons dealing with proper marking of con-

tainers secured first place for Cecil Kinney.

Robert Newman and Ed Spriggs teamed to produce animation art for a motion picture about krypton tubes which took first place.

The exhibit and judging were held in the California State Museum of Science and Industry in Los Angeles. The exhibit is now being shown in San Francisco and displays are planned in several other California cities.



**PRIZE WINNING ARTISTS** of Sandia's Creative Design, Illustration and Animation Section 3463-3 display their work which was awarded first place in a recent TIMA exhibit. From left are Robert H. Newman, Charles E. Spriggs, and Cecil C. Kinney. At top is Richard K. Strome. Exhibit and judging were in Los Angeles, Calif.

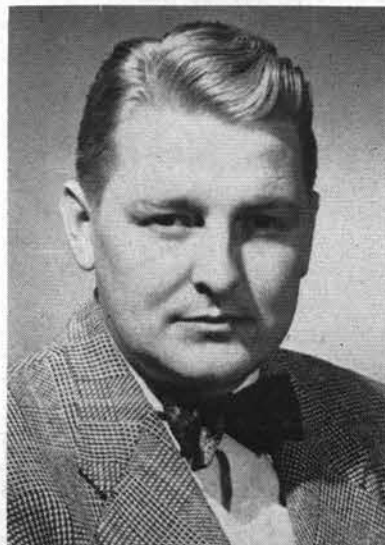
## Sandia Corporation **LAB NEWS**

ALBUQUERQUE, N. MEX. • LIVERMORE, CALIF.

VOL. 13, NO. 14

Published every other Friday for the employees of Sandia Corporation, contractor to the Atomic Energy Commission

JULY 7, 1961



Mr. Cotter

## 9100 Organization Created; Donald Cotter New Director

Donald R. Cotter, manager of Systems Engineering Department 7160, was promoted to Director of Advanced Systems Studies 9100, effective July 1.

The new organization will be responsible for conceptual and feasibility studies for new weapon systems for both Sandia and Livermore Laboratories in coordination with the University of California's Los Alamos Scientific Laboratory and Lawrence Radiation Laboratory.

Mr. Cotter will report directly

to R. W. Henderson, Vice President, Weapon Programs.

The new director joined Sandia Laboratory in 1948 as a junior engineer for the University of California in production engineering. When Sandia Corporation was formed he was named a section supervisor.

Mr. Cotter was promoted to division supervisor in Electrical Systems in 1950 and became a department manager four years ago.

Before coming to Sandia, Mr. Cotter was a development engineer with the Lansdale, (Pa.) Tube Co., a subsidiary of Philco Corp.

Mr. Cotter studied industrial and electrical engineering at Lehigh University and the University of New Mexico and is a member of the IRE. He served one year in the Signal Corps.



Mr. Weart

## PhD Awarded W. D. Weart by U. of Wisconsin

Wendell D. Weart received his PhD degree in geophysics from the University of Wisconsin on June 5. His dissertation was "The Determination of the Seismic Characteristics of Desert Alluvium."

In 1953 he received his BA degree in mathematics and geology from Cornell College, Mt. Vernon, Iowa.

Mr. Weart has been with Sandia since August 1959, working in Applied Experiments Division 5112 of the Nuclear Burst Physics Department.

## Helium Gun Lab to be Built In Sandia Corp. Tech Area I

Apparent low bidder for construction of a helium gun laboratory at Sandia Corporation is Styron Construction Company of Albuquerque.

The facility, which will be located adjacent to Bldg. 808 in Tech Area I, will be used by Physical Research Department 5130 to study materials undergoing high impact. Frequently tested will be piezoelectric crystals which

produce electrical charges when reduced by pressure.

The laboratory will consist of two reinforced concrete rooms, partially underground, connected by approximately 92 linear ft. of concrete-covered trenches. The 80-ft. barrel of the helium gun will rest in the trench between the two rooms. One room will house the firing chamber of the gun, compressors, related tubing, and gas supplies. The other room, called the impact pit, will contain the target, catcher, and instrumentation.

Control and firing of the gun will be performed from a control room located in the southwest corner of Bldg. 808.

The two-and-one-half-inch-bore gun will propel a one-lb. projectile down its barrel at velocities up to 4000 ft. per second. For velocities up to 1800 ft. per second, compressed air will fire the gun. Compressed helium will be used for higher velocities.

Work is to be completed within 75 days after the contractor receives notice to proceed.

Department 5130 design project engineer for the facility was Sig Thunborg, Jr. (5132). Plant Engineering project engineer was M. B. Moore (4543).

## Sandia Laboratory Men Speaking to Outstanding Students

Five Sandia Laboratory employees are speaking to outstanding junior and senior high school students at the College of St. Joseph.

The students are attending a three-week summer session at the College. The National Science Foundation is sponsoring the session.

Discussing careers in science and engineering are the following Sandians: R. W. Roberts (2422-1), electrical engineer; W. D. Burnett (3311), biologist; G. P. Steck (5425), mathematician; and R. E. Fisher (1122), chemist.

On July 12, R. C. Colgan (3431-1) will show "The Sandia Story," and tell the students about Sandia Corporation and the work it performs for the AEC.

Public Relations Division 3431 made arrangements for the speakers.

## Los Alamos Speakers To Be on Sandia Lab Research Colloquium

Two men from Los Alamos Scientific Laboratory will be speakers at Sandia Laboratory Research Colloquia during the next two weeks.

On July 21, A. L. Giorgi will discuss "Recent Advances in Superconducting Materials." The meeting, for which tickets are required, will be held in Bldg. 815 at 9:30 a.m. For further information call D. H. Anderson (5132), ext. 39138.

"Progress Report on Project Sherwood" will be given by T. F. Stratton on July 19 at 9:30 a.m. in Bldg. 815. Tickets are also required for this meeting. For further information contact G. W. Anderson (1310), ext. 28150.

## Construction to Start Soon on Two Buildings in Livermore Area 8

Construction is expected to begin soon on two new buildings at Livermore Laboratory to house hazardous test equipment and an explosive firing facility. Apparent low bidder for the project is the Payne Construction Company of Oakland. This firm bid \$230,690, according to an announcement by the AEC.

Included in the project are two 4500-sq.-ft. masonry block buildings, fencing, paving, cooling systems for instrumentation and personnel, and provision for installation of a bridge crane.

The buildings, to be completed late this year, will be located in Area 8. Operating the test facilities in the buildings will be personnel from Environmental Test Division 8121.

Electronic and photographic instrumentation facilities in one building will control and record high explosive tests in the Area 8 firing chambers. The other building will be used for tests and equipment of a semi-hazardous nature which require isolation from populous areas. Included in the building will be such equipment as a hydraulic shock machine, static test machine, 4-in. air gun, and recording instrumentation facilities.

Specifications for the buildings were established by Harry Jacobs (8121-2). James W. Harter (8221-1) is serving as Plant Engineering project engineer and V. O. Kerr (4543-3) is the Sandia Laboratory liaison engineer on the project.



**PROGRESS** of construction of Bldg. 861, Phase II, is viewed by V. O. Kerr (4543-3), Plant Engineering project engineer. Completion date of the new building will be about Aug. 27. It will house laboratories and offices of the Research organization. Move-in of personnel should be complete by January 1962.



Editorial

Our Extra Job

Headlines these days seem to be mostly about the fellows who mastermind the big picture. Heads of state, ambassadors, prime ministers, and high government executives are frequently in the news.

For the greater part unsung is the fellow at the head of the house who takes what spare time he can find to work with the Boy Scouts, volunteer fire department, or precinct committee. Whether these never-counted servants of their fellow men are publicly recognized or not they are major contributors to the welfare of this country.

We will never understand just how these busy fathers and mothers find time to manage a household, rear a fine family, wisely handle finances, and still give so generously of themselves to their fellow man. The Lab News is most familiar with the services being rendered by Sandia employees, but it is well known that most Americans are ready to go that extra mile of service — willingly and with a smile.

This extra job we have taken on is never-ending. We on the Lab News wish we could recognize all Sandians who serve. Our efforts to let their work be known measure far short of the work they are doing. Our reports will continue, but we will never catch up with the quantity of good they perform.

It's sometimes difficult to work with the Scouts, but it is very difficult to straighten out a delinquent. It's frequently troublesome to attend a Red Cross first aid course, but it can save a life.

These folks probably never will get into the headlines, but they are certainly tremendous contributors to a better life.

Arleen Mick to Sing for Members Of Sanado Club

Arleen F. Mick (3420), lyric coloratura soprano, will entertain Sanado Club members and guests on Tuesday, July 11, at 2 p.m. at the Coronado Club.

Her program will include selections from the following Broadway musicals: "Finian's Rainbow," "Kismet," "My Fair Lady," "Song of Norway," and "Oklahoma."



Arleen was a voice major at Kansas State College and studied privately at the Nyman School of Music, Topeka, Kan., with Hardin van Deusen at the University of Kansas City, with former Metropolitan baritone Mack Harrell, and in New York City with Bernard Taylor, then head of the Julliard School of Music.

In Albuquerque she has performed before several civic and social groups and has been a soloist for La Mesa Presbyterian church.

New 'Chords'

Six new members and a new accompanist have been added to the Livermore Lab choral group, the Classified Chords, bringing the total membership to 40.

New choristers are Frank Moon (8240), Mary Strickland (8212-5), Dick Ballard (8212-2), Joanne Watkins (8142-1), Chris Widger (8155), and Dick Prouty (8155-2).

New accompanist for the group is Betty Harris (8212-3).

Defense Fellowship

From Madison, N.J., comes word from Mrs. James W. McRae, widow of Sandia's former president.

Mrs. McRae writes that her daughter Carol has been awarded a sizeable National Defense Foreign Language Fellowship. Carol worked at Sandia Laboratory the summer of 1958 as a laboratory assistant in Industrial Hygiene Department. The following summer she went to Japan as a guest of Keio University in Tokyo.

Last March Carol completed work on a BA degree at Stanford University, majoring in International Relations, Southeast Asia. She left immediately for a year in Japan where she will work on her Master's degree with Stanford-in-Tokyo.

Friendship Quilt Is Reminder of Sandia

A "friendship" quilt may seem like an old-fashioned idea, but to Bessie Passmore (4423) it reminds her of people known at Sandia during the past 12 years.

The quilt, in Dutch girl and boy pattern, was started in January. Since then 52 of the blocks have been made by individual Sandians and given to Bessie. Each includes embroidered signatures along with the all-over pattern. The remaining four blocks were made by Bessie's daughter and three grandchildren.

"Sandia Corporation" is even spelled out on the quilt by following the Dutch boy blocks in the form of a letter "S."

Bessie owns a quilting frame and figures she has made between 18 and 20 quilts through the years.

Sandia Physicist Paints Semi-Abstracts Of Pioneer Rocket

When T. B. Cook, manager of Nuclear Burst Physics Department 5110, mentioned he had taken up painting, co-workers visualized the usual still lifes or landscapes.

They were pleasantly surprised when he brought in two semi-abstract oils of a subject nearer to his heart: paintings of the Pioneer rocket on the launching pad — ready for flight.

Tom studied water color painting for a year at Western Kentucky State but had neglected this interest for a number of years. A year and a half ago he started taking lessons from Kristine Kercheville. "I liked her paintings and decided I liked this pastime," he explained.



ARTIST-PHYSICIST T. B. Cook (5110) explains to his secretary, Ann Pearce, action depicted in his two Pioneer rocket paintings.

Livermore Lab Sandians Take To Trips In Far-Away Places

Exotic lands with interesting places across both oceans are attracting an increasing number of

vacationing Sandians at Livermore Lab. Many are now "spending" vacation time accumulated over two years or more.

Welcome Newcomers

June 19-30

<b>Albuquerque</b>	Augustine A. Apodaca	3466
	Joanne C. Branyan	3126
	Andrea Breckenridge	3153
	*Jane E. Chase	7125
	Ralph T. Dailey	3466
	William N. Dehon	3432
	Naomi A. Gallegos	3466
	Barbara J. Ghion	4315
	*Margaret L. Huelsewede	3126
	Naoma A. Levitt	3126
	Isabelle Miranda	4343
	David K. Reitzel	2421
	*Neta I. Tyler	3466
<b>Arkansas</b>	Frankie L. Crutcher, Fayetteville	2533
	Charles D. Henderson, Jr., Fayetteville	2564
<b>California</b>	Robert M. Jacob, Berkeley	7521
	Wilbert A. Jones, Fullerton	4411
	Janice L. Patrick, Mountain View	5152
<b>Florida</b>	Efstratios D. Zaffery, Gainesville	1323
<b>Illinois</b>	R. R. Balthaser, Chicago	7521
	Gene H. Haertling, Champaign	5132
	James C. Mason, Chicago	2452
	David P. Ratliff, Urbana	4332
	Donald R. Warner, Urbana	4152
	Leland D. Wright, Champaign	7513
<b>Indiana</b>	Kenneth C. Bauhs, Valparaiso	7311
	Don L. Dekker, Terre Haute	2531
	Matt H. Gubbels, Lafayette	7311
	Robert E. Hutchison, Valparaiso	7251
	Scott K. Manliof, West Lafayette	5432
	Llewellyn T. Savage, Valparaiso	7523
<b>Kansas</b>	Larry W. Oline, Lawrence	7311
<b>Massachusetts</b>	Peter B. Rand, Lynn	1112
<b>Missouri</b>	Kenneth W. Henry, Rolla	5433
	Billy W. Marshall, Rolla	1322
	Francis C. Wessling, St. Louis	7224
	George F. Wright, Jr., Rolla	1113
<b>New York</b>	John R. Burger, Alfred	3311
	John M. Holovka, Binghamton	1111
	Thomas M. Massis, Endwell	1312
	Clarence E. Robertson, Rochester	7244
	Dominick A. Ross, Binghamton	1112
<b>North Carolina</b>	Donald L. Hester, Raleigh	1314
<b>Ohio</b>	Thomas D. McConnell, Columbus	7223
	R. David Shank, Dayton	2644
<b>Oklahoma</b>	Richard C. Hennecke, Norman	2541
<b>Pennsylvania</b>	Ernest Ayers, Lebanon	4412
	John M. Carmichael, Duquesne	7321
	Thomas F. Covert, Erie	4412
	Joseph E. Curzi, Butler	4412
	Donald Fogel, Allentown	4412
	Stephen T. Gladis, Hazleton	4412
	Raymond A. Klein, McKeesport	4412
	Edward C. Kriscunas, Munhall	4412
	Gene A. Lisotto, Pittsburgh	4412
	Andrew T. Oravec, Portage	4412
	Charles T. Riney, New Castle	4412
	Kenneth L. Swanson, Dagus Mines	4412
	Paul D. Walkup, Charleroi	4412
<b>Texas</b>	Ralph H. Genz, Austin	1113
	Tommy G. Priddy, College Station	7182
	Paul K. York, College Station	2412
<b>Utah</b>	J. Daniel Tebbs, Salt Lake City	7312
	* Denotes rehired	
<b>Returned from Leave</b>	Delia Jaramillo	3120
	Joseph A. Ruggles	4411



Dottie Smith (4614)

Take a Memo, Please

FALLS are one of the chief causes of injury at work, in your homes, on vacation, everywhere. Anything that could cause you to trip or stumble is a hazard to dispense with.

Congratulations

Born to:

Mr. and Mrs. T. B. Heaphy (3423-4) twins, Kathryn Ann and Thomas Bernard, Jr., on June 20.

Mr. and Mrs. Larry L. O'Connor (1332) a son, Michael L., on June 20.

Mr. and Mrs. Randal Williams (4231) a son, Marc, on June 8.

Mr. and Mrs. Felipe L. Chavez, Jr., (1423) a son, Paul Jerome, on June 20.

Mr. and Mrs. Glenn Whan (5431) a son, David Andrew, on June 16.

Mr. and Mrs. James A. Gilbert (1124-1) a son, James Alan, Jr., on June 10.

Mr. and Mrs. J. A. Wackerly (8213-2) a daughter, Dana Rene, on June 21.

Mr. and Mrs. Antonio L. Saavedra (4254-2) a daughter, Margaret Rose, on June 8.

Mr. and Mrs. Jim Bear (7321) a daughter, Tracy Michele, on June 27. Barbara is on leave from 7120.

Mr. and Mrs. Richard Bohannon (7323) a son on June 26. Clyda is on leave from 7124.

Sympathy

To Sidney (3111) and Irvin Gasser (7534) for the death of their mother in Albuquerque June 20.

To Dorothee Drury (3423-5) for the death of her father in California June 21.

To Myna Shinn (2641), Marcel Schiess (1111-2) and Mrs. Oscar Fligner (he works in 7147) for the death of their mother in Albuquerque June 20.

To Jose Saavedra (4574) for the death of his wife in Albuquerque June 23.



FRIENDSHIP QUILT, with each block contributed by a friend at Sandia, is a prized possession of Bessie Passmore (4423). Bessie, standing at right, identifies some of the embroidered signatures for co-worker Alice Preist. The squares were started in January.

Sandia Corporation  
**LAB NEWS**  
 ALBUQUERQUE, N. MEX. • LIVERMORE, CALIF.

OFFICE OF PUBLICATION  
 SANDIA LABORATORY Employee Publications Division 3432, Bldg. 829 Sandia Corporation, Albuquerque, N. Mex.  
 LIVERMORE LABORATORY Publications and Public Relations Section 8233-1, Bldg. 912 Sandia Corporation, Livermore, Calif.

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Deadline: Friday noon of the week prior to publication

Telephone Sandia Base Alpine 6-4411 Ext. 25253, 26135

Telephone Livermore Hilltop 7-5100 Ext. 2395

Member Association Nuclear Editors, Border Council of Industrial Editors and affiliated with International Council of Industrial Editors.





**FUN IN THE SUN:** George Sage (8155-2) and his family enjoy an outing at the new recreation area at the Lawrence Radiation Laboratory swimming pool. The outdoor recreation facilities and the pool (inside the building) will be open to all Livermore Laboratory Sandians and their families from 11 a.m. to 8 p.m. on July 15.

### Supervisory Appointments

**JOHN K. MERILLAT** to supervisor of Staff Employment Section 3151-1, Employment Division.



Jack has been at Sandia Laboratory nearly 13 years. During the early years his work was mainly in Field Testing or as a Technical Department Service Representative.

For the past four years Jack has been in the Personnel organization and has been active in recruiting of college graduates as regular employees and college students and faculty members for the staff summer program.

He is a graduate of the University of Arizona with a BS degree in mining engineering.

**KENNETH E. SUTTON** to supervisor of Employment Division 3151, Employment, Personnel Testing and Staff Functions Department.



Ken has been at Sandia since August 1951. He has worked three years in Wage and Salary Administration Department, three years in Personnel Development Division and has been in Employment Division for the past four years.

Before coming to Sandia, Ken graduated from the University of Texas where he received a Bachelor's degree in business administration, majoring in industrial relations and personnel management. He was a member of Delta Sigma Pi, business honorary society.

Ken served a year and a half in the Army in occupied Japan as chief clerk of the Eighth Army Headquarters postal office.

**WILLIAM E. MELEGAN** to supervisor of Design Definition Section AI, 4411-1.



Bill has been in design definition work for nearly 10 years at Sandia Laboratory.

Prior to coming here he did design work for seven years for Industrial Rayon Corporation in Cleveland and for seven and a half years for Firth-Sterling Steel Company in McKeesport, Pa.

Bill is a graduate of Carnegie Institute of Technology in Pittsburgh.

### Phyllis Swartz Earns MA Degree At New Mexico

Phyllis R. Swartz (3430) is another Sandian who recently was awarded an MA degree at the University of New Mexico. Her degree



was in the field of guidance and counselling.

Previously her BA degree in business education was obtained in 1957 at Baldwin-Wallace College, Berea, Ohio. Part of her graduate study was at the University of Wisconsin.

Since coming to Sandia, she has been assigned most of the time as secretary for Research Division III, 5153.

### Joe Darginis Earns Degree at Diablo J.C.

Joe Darginis (8115-1) has been awarded a pre-professional Associate of Arts degree at Diablo Junior College, Concord, Calif.,



where he majored in engineering. Joe enrolled in Diablo Junior College shortly after he began work at Livermore Laboratory four years ago. Since he has been with Sandia, he has authored several technical papers in the fields of vacuum technology and metallurgy.

He is a member of the American Vacuum Society and a past member of the Instrument Society of America.

### Sandia Brochures Earn Awards of Merit

The Sandia Corporation professional recruiting brochure and a Livermore Laboratory pamphlet, "Livermore Facts," were given Awards of Merit at the First Annual Review of Technical Literature sponsored by the Golden Gate Chapter of the Society of Technical Writers and Publishers, San Francisco.

### Full Calendar of Entertainment Set For Coronado Club

Bridge playing members of the Coronado Club are invited to participate in a mixed team of four tournament Thursday, July 20. Cost for the evening, including dinner, is \$1. Reservations should be made with Bob Fegan (AEC), ext. 40297, by July 18. Dinner starts at 6 p.m.

The Saturday Night Dance tomorrow, July 8, will feature the music of George Davies. Tickets for the dance, which lasts from 9 to 1, are \$1 for members, \$1.50 for guests.

Paul Muench's orchestra will play for the monthly buffet dinner dance on Saturday, July 22. The buffet is from 6 to 8, followed by dancing from 9 to 1. Cost for the entire evening's activities is \$2.60 for members, \$3.60 for guests.

A teenage swimming and patio party will be held from 7:30 to 11 p.m. on Saturday, July 15. Tickets cost 25 cents, and must be picked up by parents at the club office or at the door.

Live music for Friday evening activities at the club will be supplied by Al Hamilton tonight, and Lee Sprague on July 14. The \$1.75 buffet is served from 6 to 7:30 p.m.

### G. A. Whan Elected President of Trinity Section of Nuclear Society

Three Sandians are among the newly-elected officers of the American Nuclear Society's Trinity Section, which was created in May.

The new president is Glenn A. Whan, associate professor of nuclear engineering at UNM. He is working at Sandia this summer in Nuclear Facilities and Operations Division 5431.

Other officers are: Harold M. Busey, LASL, vice chairman; Paul J. Sykes, Jr., AFSWC, secretary; F. Arthur Hasenkamp (5431-2), treasurer; and Executive Committee members Richard M. Bidwell, LASL, Herman W. Baker, AFSWC, and A. W. Snyder (5433).

The new officers, who were elected by mailed ballots, will serve from June 1961-62. Normally they would be installed in June.

The section was officially taken into the American Nuclear Society during a Santa Fe meeting attended by ANS national president, Miles C. Leverett, development laboratories chief of General Electric's aircraft nuclear propulsion division at Cincinnati, O.

Trinity Section plans to hold four technical meetings and one social program yearly — the first being held in the fall. The section was named for the site of the first atomic blast in south-central New Mexico.



**MOUNTAIN LION HUNTER** Cyril Moy (8224-2) displays one of the 20 killers he has eliminated in his quest to rid wildlife and livestock from this menace. More than 11,000 lions have been killed in California since the state's bounty law went into effect in 1907.

### Cyril Moy of Livermore Hunts Mountain Lions With Pistol

With one swipe of his powerful paw, the mountain lion cut a deep gash in one of the hunting dogs before Cyril Moy (8224-2) whipped out his .44 and blasted the livestock killer.

The death of the lion marked the end of another successful hunt for Cyril, who has tracked the predators through rugged mountain country in California for the past four years. With the help of his specially-trained dogs, he now has 20 lions to his credit.

Whenever lions threaten livestock, local ranchers in nearby communities turn to Cyril, one of the few skilled lion hunters with trained dogs in the state.

"Mountain lions' chief prey are livestock and deer," says Cyril. "The average lion slays 100 deer a year, a disturbing figure when you consider that there are about 2500 lions in the state." To eliminate this menace, according to Cyril, the state offers a bounty of \$50 for each male killed and \$60 for each female. So far, Cyril has collected more than \$1000, although he figures he has spent more than that on his dogs and equipment alone.

Top physical condition, a thorough knowledge of the out-of-doors, and good lion dogs are all essential to hunt lions, Cyril pointed out. "Even then, they lead you a rough and rugged chase," he said. "I've been trying to get one

out at my ranch for the past year without success. He eludes the dogs by jumping from rocks and ledges, leaving neither scent nor tracks. The only way I can tell he's around is by the deer carcasses I find occasionally in the area."

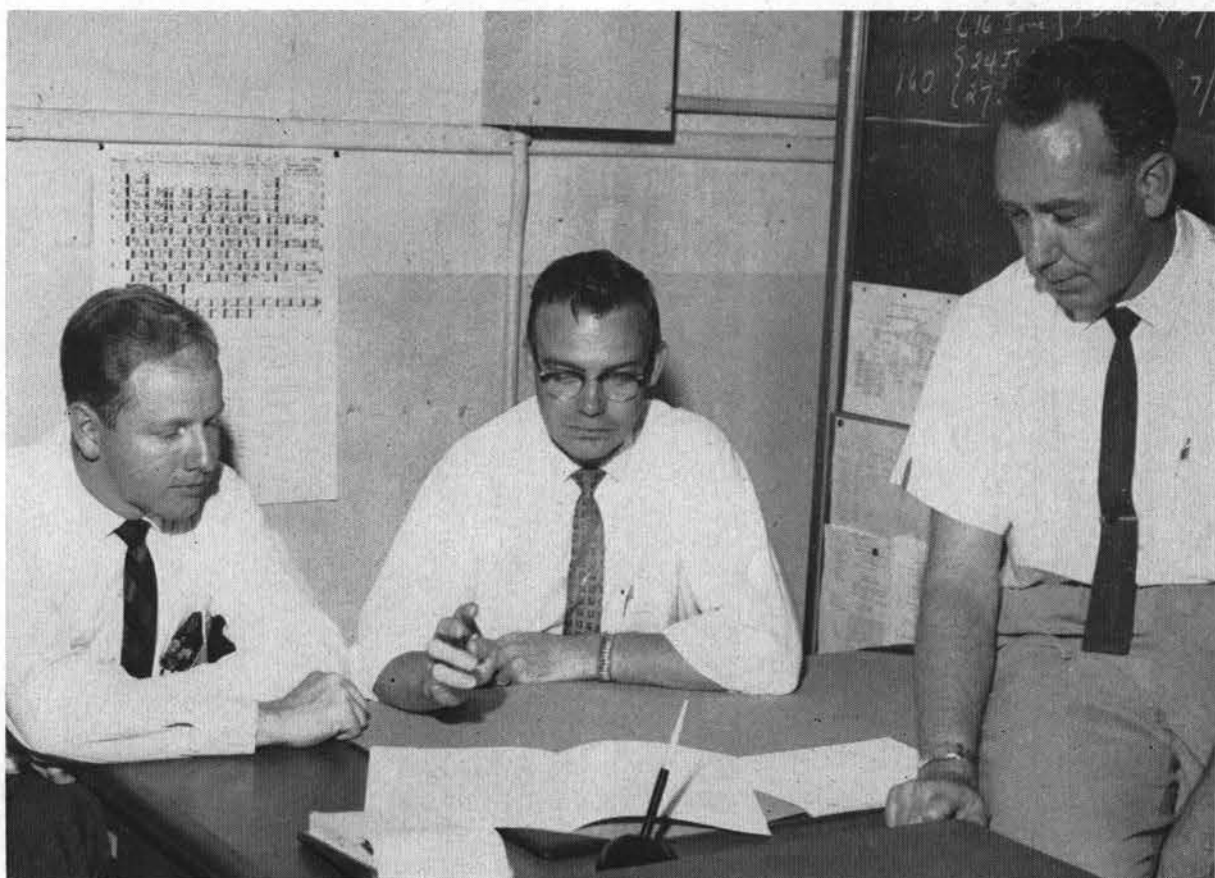
One of the best times for lion hunting, according to Cyril, is on an early winter morning when the tracks are still fresh in the soft snow, and the scent still lingers from the animal's nocturnal prowls. "You can generally accomplish more in the first few hours of the morning than you can the rest of the day," he said.

Cyril has used a pistol to hunt lions ever since his rifle was whacked from his hands by a lion, springing the barrel and rendering it useless. Luckily, a hunting companion, who was nearby, stepped in and finished off the big cat with his pistol.

The largest lion Cyril ever bagged weighed 130 pounds. "Did you make a rug from the hide?" he was asked. "No," said Cyril, "I shot too many holes in it."

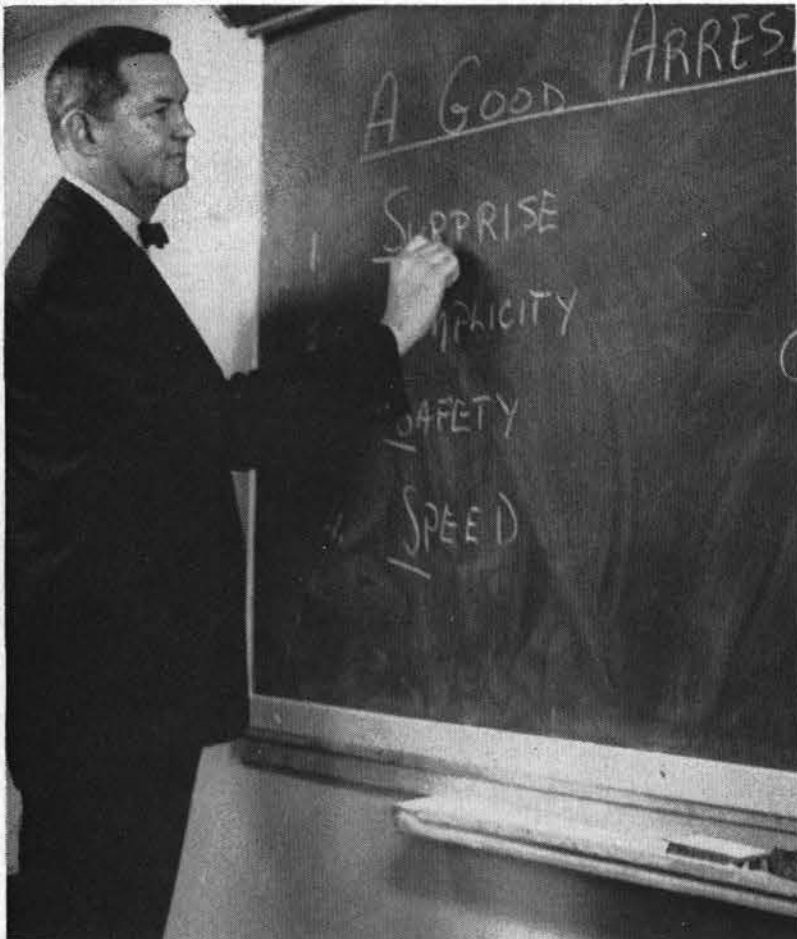
### N. J. DeLollis Speaks at MIT

Guest lecturer at Massachusetts Institute of Technology on June 28 was N. J. DeLollis (1112-2). He spoke on "Adhesives in Defense Applications."



**OFFICERS** for newly-created Trinity Section of the American Nuclear Society are (l to r): Glenn A. Whan (5431), chairman; A. W. Snyder (5433), board member; F. A. Hasenkamp (5431-2), treas.





**JOHN TODD** outlines plan which should be followed when effecting an arrest. Steps include surprise, simplicity, safety, and speed.



**INSTRUCTORS FOR THE** guard training session included Percy Wily (3232), left, and Cecil Jordan (3231). Percy spoke on techniques of arrests and Cecil taught laws of arrests and searches.



**CORRECT SEARCH TECHNIQUES** are demonstrated to guards Bob Crompton, left, and Cliff Hiner by Walt Troy (3231). John Todd (3231) poses as the captured villain who is being searched.

## Plant Security Inspectors Given FBI-Type Law Enforcement Course

A new law enforcement course, designed to supplement basic guard training, was recently presented to security inspectors in Sandia Laboratory's Patrol Division 3242.

The class was taught by members of Security Standards and Development Department 3230. All former FBI Special Agents, the instructors drew material from the same sources that are used to conduct Police Schools and FBI Training Courses throughout the country.

Walt Troy (3231-2) was in charge of the training session. Other teachers were Percy Wily II, supervisor of Security Studies and Education Division 3232; Cecil Jordan, supervisor of Security Education and Physical Inspection Section 3231-2; and John Todd (3231-1).

Lectures covered the legal aspects of making an arrest and how they apply to a guard's responsibility, the mechanics of an arrest, and the techniques of searches, both personnel and buildings.

The final session of the four-hour course consisted of a panel discussion by the instructors. The guards then took a short quiz which covered material given in the lectures.

Although the probability is slight that a Sandia security inspector will be required to make an arrest, or apply directly any of the other skills covered, with this training they are better prepared to cope with unforeseeable emergencies.

Cecil Jordan, who spoke on "Laws of Arrests and Searches," spent three years as a Special Agent with the FBI. He has worked at Sandia for nine and one-half years, the last four and a half in Security. A practicing lawyer, he is a graduate of the University of Notre Dame, and is a member of Indiana and New Mexico Bar Associations.

"Techniques and Mechanics of Arrest" was Percy Wily's subject. Percy retired from the FBI after 24 years as a Special Agent, Assistant Special Agent in Charge, and Special Agent in Charge. He held the latter assignment in 15 FBI offices throughout the country. For a period of two years Percy served as a firearms instructor at the FBI Training School in Quantico, Va. He is a graduate of Vanderbilt Law School.

Walt Troy's topic was "Searches of Persons and Places." He has been employed at Sandia for four years; three in Security. Prior to coming to Sandia, he was a Spe-

cial Agent for the FBI for four years, and also worked two years as an Arson Investigator with the National Board of Fire Underwriters. Walt is a graduate of Columbia University where he originally studied to be a teacher.

John Todd served as substitute teacher when one of the other three was unable to attend. He is a graduate of Tulane University, and spent five years as a Special Agent. John has been at Sandia about two years in Security.

The Security Department plans to conduct another series on sabotage in the near future.

## Coronado Club Members (Finally) Select New Slate of Directors

After waiting an hour and 40 minutes for a quorum of 100 people, Coronado Club members elected six new men to the Board of Directors at their annual meeting last week.

Chosen for two-year terms were Phil Arnold (3453), Bob Berry (7185), Jim Kelly (2632), and Joe Woodley (2343). One-year terms will be served by Bob Colgan (3431) and Ed Roman (7133).

Holdovers on the Board from last year's election are Jack LaFleur (2544), John McLay (1420), Jim Mick (4254), and Charles Sel-

## Two Groups Taken on Tours of Sandia Lab

Sandia Laboratory's technical summer hires took a bus tour of Area I last Wednesday.

Guides were W. M. Bray (1411) and R. A. Hayenga (2441). The group of 45 first visited the Sphere of Science.

Exceptional high school students attending a summer session at the College of St. Joseph are touring Sandia Laboratory facilities today.

After seeing the Sphere of Science, the students will visit the Van de Graaff accelerator and chemistry facilities in Bldg. 803.

All tours are arranged by Community Relations Section 3431-2. Stella Rappleyea is tours coordinator.

by (2621). Sandia Corporation representative is W. G. Funk (3120), and the AEC's is Terry Miller.

Reports were presented by each director on FY 1961 activities. The treasurer's report showed a profit of \$2613.41 as of May 31, 1961. At the end of May 31, 1960, the club had shown a loss of \$3948.51.

A meeting will be held early in July by the new board to elect officers.

## Retired Employee H. S. Chambers Died In Albuquerque at 81

Henry S. Chambers, a retired Corporation employee, died June 22 at Albuquerque. He was 81.

He had been a resident of the city for 41 years and became a gardener at the West Lab when it was an AEC facility.

Funeral services were held June 24 with burial at Sunset Memorial Park.

Survivors include his widow, a daughter in Tucson, Ariz., sons in Fort Bragg, N. C., and Spokane, Wash., and four step-children.

## Gilbert Sandoval Dies After Brief Illness

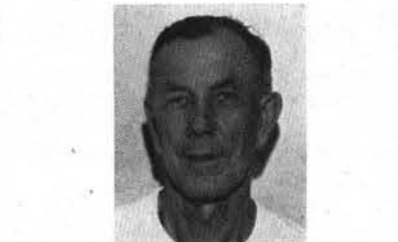
Funeral services were held last Monday for Gilberto Sandoval (4253-2), who died on June 30 fol-



**FILED UNDER "C"** is this un-cleared kitty who wandered into Bldg. 916 at Livermore Lab. Pat Tarp (8225-1) put the cat in an un-cleared filed cabinet until she could find it a home.

## C. B. O'Dell to Retire on June 30

Carl B. O'Dell, a Corporation employee for 11½ years, retired June 30. He was a painter in Di-



vision 4581 at Salton Sea Test Base, Calif.

Mr. O'Dell is going to do a lot of fishing in his new-found leisure time. He and his wife live at 999 S. Palm Canyon Drive, Palm Springs, Calif. They have one child and one grandchild.

## New Counselor Named For Livermore Lab Insurance Office

Richard Manchen, Minnesota Mutual Representative, has been appointed Insurance Counselor at Livermore Laboratory, assisting Woodrow "Woody" Hammons.

Dick, a resident of Pleasanton, will be available for consultation from 8 a.m. to 4:30 p.m. Tuesdays through Thursdays at Livermore Laboratory. His office extension is 2259.

Before his assignment to Livermore Laboratory, Dick spent 10 years with the Prudential Life Insurance Company, serving as field manager in the Livermore Valley area for the past five years.

lowing a brief illness. He had been employed at Sandia Corporation since March 1951 as a precision machinist.

Burial was in Mt. Calvary cemetery in Albuquerque.

Mr. Sandoval is survived by his widow and four children.

## Lab Employees Place Third in Rifle Shoot-Off

A small-bore rifle team, made up of Sandia Laboratory employees, placed third in its first competition shoot-off at the Sandia Base indoor range.

Members of the team are Don Eiler (2412), Buzz Milton (1113), Mike Barbaro (1124), Eugene Foderaro and Chuck Grassham (both 7322-5), and Phil Gelt (1424).

The group meets on Tuesday and Thursday evenings at the Base indoor range, and also plans to shoot on Wednesdays at the outdoor range.

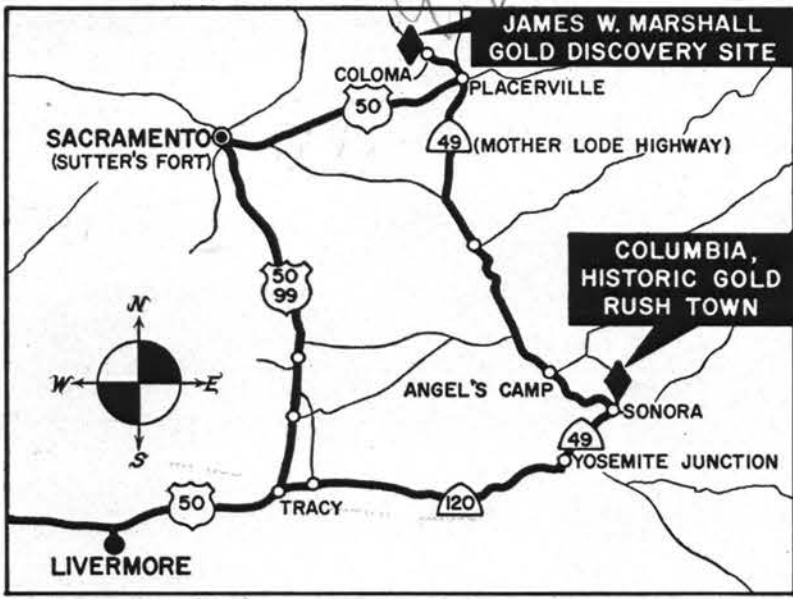
Anyone interested in joining the group should contact Don Eiler, ext. 39233.

## Two Papers Presented At Technical Session In Boulder, Colorado

W. E. Little (2412-3) presented two technical papers at a High Precision Connector Technical Session in Boulder, Colo., on June 29. The National Bureau of Standards sponsored the meeting.

Titles of his talks are "A Coaxial Reflectometer System" and "Measurement of the Insertion VSWR of Coaxial Connectors Using Reflectometer Techniques."





MOTHER LODE COUNTRY is easily accessible from Livermore for weekend vacationers. Restored state historical sites in the area include Coloma, where James Marshall discovered gold in 1848, and Columbia, where rich placer deposits were found in 1850. Gold was first discovered in California at Sutter's Fort.

## California's Mother Lode Country Bonanza for Pleasure Seekers

If you have ever had the urge to take a trip to historic or scenic places this new series of articles in the LAB NEWS will be of interest. During the summer months the Weekend Vacationer will spotlight some intriguing locations in Northern California and New Mexico.

Just a few hours' drive from Livermore to the Mother Lode Country will take you back in history to the gay and glorious days of the California Gold Rush.

Along the Mother Lode Highway (Rt. 49) are many small mining towns, once thriving communities, now restored by the state and private organizations to recapture the excitement and glamour of the days when gold fever swept the country.

One of the most interesting of these restorations is located at Coloma, 40 miles northeast of Sacramento, where the state maintains a Historical Monument and State Park in tribute to James Marshall who "struck it rich" there in 1848.

Displayed are early mining devices used during the gold rush, Marshall's cabin, and equipment abandoned at the site when the gold veins petered out.

Signs posted along trails describe mining and living conditions at the time of the gold rush. A nearby picnic area accommodates visitors at the site of the

original "tail race mill." The nearby American River today still washes down trace amounts of gold.

South of Coloma is Columbia, another historic site on California highway 49 near Sonora.

The Columbia area, established in 1850, was one of the richest gold producers in the state. It is estimated to have yielded \$87,000,000 worth of gold, based on rates from \$18 to \$21 per ounce.

A great number of the early buildings have been restored at Columbia by the State Division of Parks and Beaches. Columbia's most fruitful years closely paralleled those of Coloma. By 1860 much of the population had left and mining and business were on the decline. Some of the residents remained, however, and the town today has a population of approximately 500.

Other signs of the early mining days are in evidence all along the Mother Lode Highway, providing many interesting stops for the weekend vacationer.

## Bids Opened by AEC For Bldg. 863 Changes

The bid of \$24,405 by Styron Construction Co. of Albuquerque was the apparent low figure for modifications to Bldg. 863 in Sandia Tech Area I. Bids were opened by the AEC on June 20.

The work is to be completed within 75 days after the contractor receives notice to proceed and consists of modifications to the refrigerative air conditioning system, cooling tower piping, and other construction.

The building is occupied by Motion Picture Division 3465, Records Depository Section 3464-1, and Micro Reproduction Section 3464-3. Some of the processing equipment used by these organizations requires tighter temperature and humidity control than is possible under the existing air conditioning system.

Plant Engineering Department men planning the modifications are: John Snowdon (architectural), H. B. Burrell (mechanical), and Omar Heins (electrical).

## Six-Man Team of Sandia Lab Golfers In City Tournament

Sandia Laboratory was represented by a six-man team in the 17th annual Albuquerque City Golf Championship Tournament held at Los Altos June 30-July 4. The team placed third in competition.

Those who competed in the team medal play on June 30 were Bob Kelly (2641), Dick Kidd (2533), Jim Leonard (7147), Horace Lucero (7131), Wendell Nelson (4152), and Larry Smith (5111).

The tournament, sponsored by the Junior Chamber of Commerce, was directed by Wendell Nelson.

## Credit Union Encourages Inquiries Be Placed on Wednesday, Thursday

Employees with special problems or requesting extensive information are asked to wait until Wednesdays or Thursdays before visiting the Sandia Laboratory Federal Credit Union.

"The early part of the week is our busiest time," Manager Dale Bellamy explained. Better service can be given unusual problems later in the week.

# Sandia Service Awards

15 Years



Joseph R. Heaston  
7256  
July 9, 1946



G. C. Holloway  
2320  
July 16, 1946

10 Years  
July 8-21

## Atomic Industry Employees Open New Radio Net July 4

A new radio net for atomic industry employees broadcast for the first time on July 4 at 8 p.m. on 7011 kc's. Net call is AEN.

Sandia employees who are interested in joining this group of amateur radio operators should contact Carl Franz (1321), W5-ZHN, 23230 Krough Ct. NW. The net will be called each Wednesday at 8 p.m.

## Naval Reservists Complete Two-Week Study of Russian

While Marine Corps Reservists were making a 100-mile undetected hike through New Mexico last month, Naval Reservists were using different means to "be prepared."

Seven Naval Reservists, regularly Sandia Corporation employees, were among the men on active duty completing a two-week intensified course in the Russian language. This was the equivalent to two semesters of study, according to instructor LCDR. John Shunny (3422).

John has been taking the Sandia courses in Russian since they were first offered several years ago.

The students were: Lt. George Lemmon (1322), LCDR. Jack Halliday (1411), Lt. Cal Rogers (7242), CDR. Morris Goebel (7521), LCDR. Bill Bray (1411), CDR. Jim Martin (1322), and LCDR. Paul Robertson (1414).

Winifred M. Fellows 3126, Alfred M. Granum 4362, Max E. Ludeke 7213, Francis R. Martin 2422, Eleanor B. McPhate 4131, John R. Tolmie 2332, Judson L. Santo 4624, Charles C. Riley 4221, Felix E. Castillo 4613 Dorothee A. Drury 3423, James C. Arndell 7535.  
Loren L. Chambers 4582, Donald J. Coleman 3311, Harry K. Daniel 2313, Robert A. Dawirs 4162, Clayton E. Erickson 7252, Robert S. Summers 2441, Connie Lee Taylor 7252, William L. Dowd 3242, Larry W. Eden 4573, Reinhardt A. Quelle 3122, George E. Reis 7224, Thomas W. Strome 2531.  
Nelson Weidman 4573, Jack K. Williams 1411, Marrian P. Salomon 1414, Elden M. Vanvickle 4511, Gerardo J. Lombardi 7511, Luis Martinez 4611, John S. Souza 2543, Ellen C. Wood 2634, Arthur E. Becker, Jr. 4221, B. F. Fisher, Jr. 8161, Melvin A. McCutchan 3132, Vera Lee Miller 4333.

## Phase Two Construction Work to Be Started On Acoustic Facility

Construction of Phase II of the Acoustic Test Facility in Area III will begin soon, the AEC announced last week. The facility, which duplicates rocket and jet engine roar, is operated by Environmental Test Operations Department 7320.

Apparent low bid of \$79,395 for the construction project was submitted by Underwood Testman Company of Albuquerque.

The project includes construction of a prefabricated metal building of 576 sq. ft., and installation of a 350-lb. government-furnished air compressor. Also, related mechanical, electrical, and control equipment will be installed. Miscellaneous utility and site improvements will be made.

Work is to be completed within 150 days after the contractor receives notice to proceed from the AEC.

Plant Engineering Department project engineer is R. G. Piper (4543-3).

### SHOPPING CENTER

### SHOPPING CENTER

### SHOPPING CENTER

### SHOPPING CENTER

### SHOPPING CENTER

#### CLASSIFIED ADVERTISING

Deadline: Friday noon prior to week of publication unless changed by holiday.

#### RULES

1. Limit: 20 words
2. One ad per issue per person
3. Must be submitted in writing
4. Use home telephone numbers
5. For Sandia Corporation and AEC employees only
6. No commercial ads, please
7. Include name and organization.

#### FOR SALE

- PORTABLE EVAPORATIVE cooler and stand. Cummings, Sun Valley Trailer Park, Trailer No. 3, 1104 Atrisco Dr SW.
- TV BENDIX, table model, w/stand and aerial, \$40; rug, heavy, green, 12'x15', \$20; sofa bed couch, \$15; other items. Fairbanks, 304-A Texas SE.
- '60 JAWA Scrambler motorcycle, 250cc, 18 hp, 1500 actual miles, \$400. Follingstad, AL 5-3611.
- '60 SCHWINN Continental 10 speed racing bicycle. Jordan, AL 5-4832.
- 3 BDR BRICK Inez addition, 1 1/2 baths, w/w/wool carpeting throughout, air conditioned, new furnace, new water heater. Weber, AL 6-0836 after 2 p.m. for appointment.
- '58 LAMBRETTA motor scooter, model 125, \$175. Sandgren, AX 9-5007, 1510 Pitt NE.
- GERMAN SHEPHERD puppy, AKC registered, female, eight weeks old, sell reasonable. Sandoval, AX 9-9407.
- VACATION TRAILER, 19', self-contained. Roane, 2909 Garcia NE.
- 3 BDR BRICK in SE, 1 1/2 bath, den, fireplace, covered patio, built-in barbecue, landscaped corner lot. Assume 4 1/2% GI or refinance FHA. Thomas, CH 3-0305.
- LIONEL TRAIN, Santa Fe Super Chief freight, 5 cars, 0 gauge, 2 switches, extra track; ZW 275 w/transformer; 4x6 train board, \$40. Glen, AX 9-2743.
- WEIMARANER PUPS, AKC registered, 20 champions in pedigree, see both sire and dam. Zimmer, AM 8-8262.
- SKYFLEX CAMERA, f/3.5, self-timer, carrying case, 12 exposures from 120 roll, \$35. BC-348 receiver, \$50. Williams, AX 9-5176.

- 10" RADIAL arm saw, Sears, w/4 drawer steel table, \$215; 2 Long Lake pipes, heavily chromed, \$15. Harter, 256-3766.
- FEMALE BEAGLE, 9 months old, registered AKC prizewinner, \$25. Tischhauser, AX 8-1407.
- STEEL WINDOW w/glass and screen installed, 56" wide x 41" high, \$30. Cordova, AX 9-3460.
- BOYS BICYCLE, 26" with kick stand and chain guard, \$20. Bemis, AM 8-6376.
- COCKTAIL DRESS, full skirt, azure blue organza, w/duster, size 12-14, originally \$75, worn three hours, \$25. Austin, AL 5-4507 after 5 p.m.
- VIBRATOR RECLINING chair, black leather with black and white tweed cushion, \$55. Lawrence, AL 5-2968.
- WURLITZER SPINET reed organ, modernized and motorized. Will trade. Banks, AL 5-2544.
- REMINGTON PORTABLE typewriter, \$25; eight-pl. settings Winfield china, \$150; portable radio-phonograph, \$30; adjustable 2-position stroller, \$4. Rueb, AX 9-4805.
- SIAMESE CAT, 5 month old male, excellent pedigree. Becker, AM 8-7872 after 5 p.m.
- VIBRATOR BELT, reducing machine, cheap. Costello, AX 9-0563.
- AUTOMATIC WASHER, Norge, reasonable offer or trade for lumber or cement mixer. Foster, AM 5-0069.
- BROWNING AUTOMATIC shotgun, 16 gauge, 28" full choke, ventilated rib; belt-type magazine, home-built, sturdy; projection screen, 30"x40", \$7.50. Westfahl, 255-2473 after 5 p.m.
- MODERN SECTIONAL, 3 pc., needs recovering, \$35; studio couch, makes into double or twin beds, \$30; GE dishwasher, \$45. Truby, AX 9-0577.
- 2 WHEEL trailer with straight axle, overload springs, '61 license plates. Martinez, DI 4-7850 after 6 p.m.
- CONN ORGAN with separate speaker, 6 years old, originally cost \$2500, will sell for \$895. Dixon, AX 9-6886.
- BOYS 24" bicycle, \$20. Sirnic, 9601 Arvilla NE, AX 9-8916.
- COACH BED for '60-61 Chev-GMC pickups, sleeps four, foam rubber cushions and mattress, plywood and masonite construction, reasonable. Lawwill, AX 8-2681.
- CAR COOLER, 12 volt with 110 volt transformer, \$15; luggage carrier, \$2. Szymanski, AL 6-1708.
- LADIES WATCH, 17 jewel Benrus, diamond each side, new band, \$25; 4-speed RCA Victor phonograph, diamond needle, stand, LP records, \$45. Smith, AL 5-3244.

### NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, July 14

- SWIVEL CHAIR, pink; blond coffee table w/magazine rack, compartment w/door; 2 LR lamps, aqua and white. Thorp, 256-9559.
- SWING SET and slide, extra heavy duty, originally \$120, sell for \$40. Whittaker, 3620 Georgia NE, AX 9-9172.
- 3 BDR, 1 1/2 bath, 2-car garage, work-shop, hw floors, fireplace, large covered patio, NE location, must sell soon. Barker, 1101 Parsifal NE, AX 9-2365.
- TWO-PIECE sectional couch, heavy, \$50; French Provincial sofa, \$65. Frankel, 704 Dallas NE, AM 8-0100.
- PORTABLE AIR COOLER, Gaffers and Satter, used one season, \$25. Zottnick, AX 9-6339.
- TIRE, 900 x 14, practically new tubeless wsw Seiberling, \$15. Pewe, 1504 Monroe Pl. SE, AL 5-3518.
- DRAPES, full length grey cotton, gold lurex thread, 10-ft. and 6-ft. widths, both for \$5. Miller, AM 8-5992.
- PORTABLE HEATER for garage use or what have you, two-way speed, 6 months old, \$10; GE ironer, \$20. Leaving town. Karels, 11608 Bellamah NE, AX 9-7764.
- YOUTH BED with removable sides. Downs, ext. 34293.
- R-1 CORNER lot, 60' x 150', all paving paid, utilities in street, walls, Columbia and Thaxton SE. Burns, CH 2-2407.
- CARPETS, 2 years old: cotton, 20 yards; wool, 6 yards. Also two portable air conditioners. Hosterman, 256-9560.
- GAS REFRIGERATOR, Servel, 6 ft., operates on natural gas, butane or kerosene, \$25. Galbreath, 3730 Manchester NW, DI 4-4306.
- 3 BDR, 1 1/2 baths, DR, utility w/220 v., built-in range, Spanish fireplace, w/gas, sprinklers, landscaped, walled, \$16,000, no qualifying. Hewitt, AM 8-2563 or AM 8-2822.
- HOUSE TRAILER, 1956 model, 31 ft., shower and tub, natural gas heater, \$1650. Moritz, AL 6-2362.
- 3 BDR HOUSE, Roberson, 1 1/2 baths, family room, fireplace, pitched roof, double garage, 22 months old, \$19,000. Leisey, AX 8-2887.

- GAS RANGE, 1959 Sears Roebuck, 4-burner, large oven w/glass door, light, broiler, rotisserie, griddle, \$100. Mitchell, 1534 Clancy NE, AX 8-0257.
- '54 OLDS Holiday 98, PB, PS, R&H, factory air-conditioning, automatic dimmer, white walls, \$500. Larson, DI 4-2684.
- AIR CONDITIONER, one ton refrigerated, used only 5 months, original cost \$300, will take \$100 or best offer. Cline, AX 8-1796.
- ALPINE EVAPORATIVE COOLER w/4500-cu.-ft. capacity, includes copper tubing, winter cover, \$75. Seligman, CH 2-0263.
- 2 1/2 ACRES Manzano Mts., ideal for mt. cabin or home, eleven miles south on Hwy. 10, total price \$1000. Bass, TR 7-1692.
- MODERN walnut dining table, 6 chairs, extension, felt base table top protector; box spring, mattress set, almost new. Culley, AL 6-6308.
- AIR CONDITIONER, Modern Aire, 4000 cfm, including 60 ft. plastic tubing. Campbell, ext. 29192 after 5 p.m.
- HIGH CHAIR w/detachable tray; 5-year crib, double drop sides w/teething rail, natural birch finish. Knight, AX 9-3783.
- 12V auto air conditioner; screen door; 2 7.50-14 tires; power mower (junk price). McCammon, AL 5-6125.
- '60 ALLSTATE motorcycle 175, 10 hp, 500 miles, sacrifice, \$295. Whitehill, AX 8-0131 after 4 p.m.
- 20 ACRES, clear title, good well, small cabin, inside Cibola Forest, S. Hwy. 10, \$3000 down. Cody, AM 8-4249.
- '61 BISCAYNE Chevrolet, white, blue interior, R&H, V-8 motor, automatic transmission, just what I owe, \$2300, cost \$3199.99. Cummings, CH 2-1061 after 5 p.m.
- SIX ROOM HOUSE, 720 Hermosa NE, excellent condition in established neighborhood of higher priced homes, available to qualified employees under Western Electric Home Disposal Plan. Dickinson, ext. 29139.
- FRIGIDAIRE refrigerator, \$25; nine light steel casement windows, glazed, two roll-out sections, \$12. Barber, AX 9-4287.

#### FOR RENT

- FIVE ROOM partly furnished apartment, water and garbage paid, University area, \$60. Glory, CH 2-1586.
- 2 BDR HOUSE, furnished, utilities paid, near Base, automatic washer and dryer, \$95/mo. Chavez, AL 5-1585.

- NEWLY DECORATED furnished apt., 3 rooms and bath, water and gas paid, near Base, \$75/mo. Burnett, DI 4-3563.
- COUNTRY HOME, 2 bdr, barn, chicken house, plenty of grounds, east of Albuq. near Moriarty, \$60/mo. Dixon, AX 9-6886.

#### WANTED

- CLASSICAL GUITAR; 3-speed, light-weight ladies bicycle; car top carrier for small imported car. Abrams, DI 4-8252.
- ZOYSIA, sod or plugs. Sirnic, AX 9-8916.
- GOOD HOME for six-week-old kittens, choice of colors and fur lengths. Taylor, AL 6-3774.
- SINGLE GIRL to share house with Sandia Corp. woman employee, NE heights, transportation furnished to and from Base, reasonable. Newton, AL 5-1543.
- LATE MODEL compact or Volkswagen; have '59 9-passenger Chrysler wagon, full power, dual air cond.; will talk trade. Palmer, DI 4-5342.
- JOIN reliable car pool vicinity Martha and Snow Heights. Brown, AX 9-3189.
- RIDE from vicinity of 212 Utah NE to bldg. 880. Davenport, 256-7987.
- NICE HOMES for 3 little kitties. Norton, ext. 47140.

#### LOST AND FOUND

- LOST—Keys, knife and nail clippers on some container, Lytle Eng. ball point pen, padlock, black shield cuff link, Albuquerque National Check Book. LOST AND FOUND, ext. 26149.

#### FOR SALE AT LIVERMORE

- '54 FORD 6, low mileage, 2500 miles on motor overhaul. Barnard, HI 7-4288.
- PORTABLE TYPEWRITER, Smith-Corona, \$35. Sheldon, HI 7-5879.
- DINETTE SET, grey formica w/chrome trim, table w/leaf and four matching chairs, make offer. Strickland, HI 7-5551.
- RIFLE, Model 336, Marlin lever action, 30-30 caliber, fired about 6 times, \$45. Voss, Ext. 2345.
- RIFLE, Winchester, Model 94, lever action, 30-30 caliber, \$50. Zumwalt, HI 7-5964.
- FISHING BOAT, 14 ft. Aluminum Craft, \$140. Fallon, HI 7-4733.
- COMPACT CLEANER, all attachments, \$150 or make offer (\$248 new); Kelvinator refrigerator, \$65; 19" TV console, \$35. Henderson, Ext. 2571.





**HANDWRITTEN** purchase requisitions may be submitted in the new Procurement Cycle plan. Order Analyst Larry Chavez (2643-1) presents operator Lois Swearingen (3126) a purchase requisition for introduction into the system. PR is then transmitted by wire.



**PURCHASE REQUISITION** information goes to management reporting. Louis Narvaiz and Ronnie Tabulating Division where data are reduced for Lauxman (both 4132) examine the arriving tapes.

## Automated Processes Will Speed-up, Make Easier Sandia Laboratory Buying

After more than a year of study and a pilot run of several months, an automated system for procurement of material for Sandia Laboratory is being installed. Called "Procurement Cycle — Integrated Data Processing System," the method will automate several functions in the procurement cycle.

Special Teletype equipment, some designed to Sandia requirements, makes the system possible. Teletypewriters, tape punches, transmitters, receivers, and IBM tape-to-card converters are used.

From the preparation of purchase requisitions through the purchasing process to delivery and inspection of the ordered item, the new machine system offers the advantages of speed and simplicity. The system processes commitment information, mechanizing the reporting of this information.

As proved in the pilot test, the new system works in the following manner:

The requester drafts a purchase requisition (PR) and gives it to one of the seven Teletypewriter centers to be located in the Laboratory area. Here the requisition is typed and simultaneously a paper tape is punched. A copy of the PR is returned to the requester for approvals while the tape is temporarily filed. When the approved PR is returned, the tape is pulled from file and the information transmitted by wire to a receiving station in Purchasing located in Bldg. 800. In special situations, a handwritten copy of a PR may be approved and forwarded to a Teletypewriter station.

### Purchasing Portion

The purchase requisition now enters the Purchasing portion of the cycle. Other Teletype machines have produced copies of the PR for use by the buyer. Two new tapes have been simultaneously produced. One of these tapes is filed by Purchasing. The other tape is automatically produced by receiving equipment in Tabulating Division 4132 in Bldg. 880. This tape is converted to IBM cards and the data are reduced by computer for accounting, financial, and management reports.

As the buyer prepares requests for quotations and/or final purchase order, the filed tape is used to automatically re-type a portion of the order. Updated and other purchasing information is added by the operator using the Teletypewriter. In addition to an original, carbon, and azograph master copies of the purchase order,

the machine simultaneously produces another tape.

The azograph master goes to Receiving organization where receiving reports are prepared as the material arrives. Copies are produced from the azograph master for Vouchering, and the requesting organization and others as needed.

In the meantime, the final purchase order tape has been transmitted to Tabulating Division where other IBM cards (containing selected procurement data, etc.) are produced. These new cards automatically replace the earlier cards originated at the time of processing the purchase requisition.

### Livermore Data

Selected data from Livermore Laboratory's Purchasing activities enter the system here. Information has been transmitted via Belfast equipment which also produces a tape. This tape is converted to IBM cards and fed into the system for data reduction and management reporting.

The tapes in the system will eliminate the need for manually duplicating typing of the forms. Transmission by wire to the various locations will greatly speed up the procurement process. It will no longer be necessary to hand carry purchase requisition forms when items are needed quickly.

The study for the system was launched by Business Methods Department 4110. Homer Pierce, supervisor of Operations Methods Section 4111-2, led a team of rep-

resentatives from several general organizations which performed the study of the Corporation Procurement Cycle. Out of this study came the recommendation for the new system. Section 4111-2 staff members who coordinated the study were C. R. McKelvey and Dan Clement.

### Unusual System

"In a sense, our system is unique," Mr. Pierce says. "It is designed to meet the current and future needs of Sandia Corporation. Already we have had several queries from other companies about the system and comments from them have been favorable."

The system is now in its first phase of operation. A machine for handling requisitions is currently located in Rm. 50 of Bldg. 880. This machine is operated by Engineering and Research Support Division III, 2643, to handle purchase requisitioning for the Field Testing organization.

The machine is connected directly to equipment in Office Service Division 4333 of the Purchasing organization in Bldg. 800 and to machines in Bldg. 880 operated by Tabulating Division 4132.

A manual of instruction is under preparation now for the operators of the system. A class will start next week to train additional operators.

Additional equipment is arriving each month. Mr. Pierce estimates that the complete system will be installed and functioning by Jan. 1, 1962. At Sandia Lab purchase requisitioning stations are planned for Bldgs. 800, 802, 836, 840, 880, 887, and 892.

## Tech Information Releases Number Of Papers for Civilian Program

During the first quarter of 1961, Technical Information Department 3420 sent 87 technical papers to the AEC's Office of Technical Information Extension at Oak Ridge, Tenn., for the Civilian Application Program. This number compares to 72 for the final quarter of 1960.

Two sets of Engineering Drawings were also released this quarter for civilian applications. Release of reports which were originated by subcontractors in connection with their work for Sandia Corporation totaled 16.

Material made available to the public through the AEC's Depository Libraries and the Office of Technical Services, Department of Commerce, Washington, D.C., included the following: 12 research reports; two development reports; 33 Tech Memos; and nine reprints and monographs.

During the first quarter, 16 articles by Sandia Corporation employees were published in Journals, and 20 technical papers were presented. One book was also published during this period.

## Bell System Chess Tourney Puts Out Call for Sandia Players

Sandia Corporation employees are invited to participate in the 15th annual Bell System Postal Chess Tournament. Entries for the tournament close July 31.

Players are grouped into sections with players having relatively the same skill. Each player in a section plays all the other members of the section at the same time. A victory certificate is awarded to the winner of each section.

A point system is also used so that players with more wins than losses may progress to a higher rated section in subsequent annual rounds.

Entrants should submit name, company, business address, and home address to: Chess Tournament Director, American Telephone and Telegraph Co., Room 1338, 195 Broadway, New York 7, New York.

Participants should also indicate whether they'd like to compete in one, two, or three sections simultaneously, and with above average, average, or below average players. If they have played in previous rounds of the tournament, the code number of company affiliation at that time should be given.

## Sandia's Safety Record

**Sandia Laboratory HAS WORKED 3,285,000 MAN HOURS OR 95 DAYS WITHOUT A DISABLING INJURY**

**Livermore Laboratory HAS WORKED 367,000 MAN HOURS OR 72 DAYS WITHOUT A DISABLING INJURY**



**TELETYPEWRITER** of the new Sandia Laboratory automated procurement system is operated in Purchasing organization by Dottie Case (4333-3). System eliminates duplicate manual typing.